

3rd Annual Conference

***BTR 2003: UNIFIED SCIENCE & TECHNOLOGY FOR
REDUCING BIOLOGICAL THREATS & COUNTERING TERRORISM***

“Strategy and Ground Truth: Defining the Road Ahead”

19 - 21 MARCH 2003

**Preliminary Program
and
Information**

(<http://coffee.phys.unm.edu/BTR>)



**Texas Tech
University**

3rd Annual Conference
BTR 2003: UNIFIED SCIENCE & TECHNOLOGY FOR
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Co-sponsored by: UNM Office of the Vice Provost for Research; UNM Center for Advanced Studies; UNM School of Medicine; UNM School of Engineering; Sandia National Laboratories; Argonne National Laboratory; Los Alamos National Laboratory; TTU Center for Biodefense, Law, and Public Policy; and other sponsoring in progress

Conference Chair: Dr. Robert V. Duncan; Program Chair: Dr. Annette L. Sobel; Coordinator: Barbara L. Daniels

Conference Site: Wyndham Albuquerque Hotel, 2910 Yale SE, Albuquerque, NM 87106

20 MARCH, THURSDAY: CONTINENTAL BREAKFAST/CHECK-IN **7:45 – 8:30**

Session 1: National Level Preparedness and Response **8:00–11:45**

Moderator: Dr. Annette L. Sobel, Sandia National Laboratories

Welcome	Dr. Robert V. Duncan, University of New Mexico	8:00–8:10
Overview	Dr. Annette L. Sobel, Sandia National Laboratories	8:10–8:30
New Mexico Welcome	Governor-Elect William Richardson, State of New Mexico (invited)	8:30–8:45
Congressional Perspective	The Honorable Heather Wilson, US House of Representatives (invited)	8:45–9:00
Keynote Address	VADM (Dr.) Richard Carmona, Office of the US Surgeon General (invited)	9:00–9:30
<i>Transforming BW Defense</i>	Lt Col (Dr.) Donald L. Noah, OASD for International Security Policy	9:30–10:00

AM BREAK **10:00 – 10:15** **ADD ROOM HERE**

<i>Use of Syndrome Surveillance as a Management Tool in Controlling</i>		
<i>Infectious Disease Outbreaks</i>	Dr. Manfred G. Green, Israel Center for Disease Control	10:15–10:45
<i>Role of the Department of Veterans Affairs</i>		
<i>in Homeland Security</i>	Dr. Kristi L. Koenig, Department of Veterans Affairs	10:45–11:15
Panel Discussion	All session presenters	11:15–11:45

(Moderator: Dr. Annette L. Sobel)

LUNCH **11:45 – 12:15** **ADD ROOM HERE**

Session 2: International Web of Terrorism **12:15–3:20**

Moderator: Dr. Richard A. Matthew (Environmental Change and Human Security Research Office, University of California-Irvine)

<i>Globalization of Terror: Challenge of the Al Qaida and the</i>		
<i>Response of the International Community</i>	Dr. Yoram Schweitzer, Consultant, Counter-Terrorism	12:20–12:45
<i>Health Security: A Vision for the Future</i>	Dr. Scott R. Lillibridge, Center for Biosecurity, UT-Houston	12:45–1:10
<i>Urban Planning as National Security Threat: The Case</i>		
<i>of the Los Angeles-Long Beach Port System</i>	Dr. Richard A. Matthew, University of California-Irvine	1:10–1:35
<i>International Legal Issues in Biodefense and</i>		
<i>Bioterrorism</i>	Dr. Victoria Sutton, Center for Biodefense, Law, and Public Policy	1:35–2:00
<i>Keeping One Step Ahead</i>	Col. Anthony M. Rizzo, USAF, Brooks AFB	2:00–2:25
<i>Predicting Major Terrorist Attacks: An Exploratory</i>		
<i>Analysis of Predecessor Event Intervals in Timelines</i>	Dr. E. Glynn Harmon, University of Texas at Austin	2:25–2:50
Panel Discussion	All session presenters	2:50–3:20

(Moderator: Dr. Richard A. Matthew)

PM BREAK **3:20 – 3:40** **ADD ROOM HERE**

Session 3: Effective Preparedness through Countermeasures **3:40–5:30**

Moderator: Lt Col (Dr.) Donald L. Noah (OASD for International Security Policy)

<i>Preparedness for Smallpox Outbreak</i>	Dr. Schmuel Reznikovitch, Israel Ministry of Health	3:45–4:10
<i>Public Health Countermeasures for Intentional Biological</i>		
<i>Releases: New Horizons for the 21st Century</i>	Dr. Eric K. Noji, Office of the US Surgeon General	4:10–4:35
TBD	TBD	4:35–5:00
<i>Resonance-Enhanced Dielectric Sensing of Chemical</i>		
<i>and Biological Species</i>	Dr. Nachappa Gopalsami, Argonne National Laboratory	5:00–5:25

ADJOURNMENT **5:30** **(SESSION 3 WILL CONCLUDE 21 MARCH, FRIDAY MORNING.)**

RECEPTION (HOST BAR/HORS D'OEUVRES) ADD ROOM HERE **6:00 – 8:00**

21 MARCH, FRIDAY: CONTINENTAL BREAKFAST/CHECK-IN**7:45 – 8:30****Session 3: Effective Preparedness through Countermeasures (conclusion)****8:00–12:15**

Moderator: Lt Col (Dr.) Donald L. Noah (OASD for International Security Policy)

*Oral WGP Beta Glucan Treatment Accelerates Myeloid**Recovery and Survival after Radiation Exposure* Dr. Gary Ostroff, Biopolymer Engineering, Inc. 8:05–8:30*Detection & Identification of Biological Threats* Dr. Linda Powers, Utah State University 8:30–8:55*Development of Rickettsia Prowazekii DNA-Based Vaccine for Countering Bioterrorism* Dr. Suzana Radulovic, University of Maryland School of Medicine 8:55–9:20*Rapid Diagnosis of Genetically Altered Bacteria: A Nightmare* Dr. Abdu F. Azad, University of Maryland School of Medicine 9:20–9:45**AM BREAK****ADD ROOM HERE****9:45 – 10:00***Biosignature Models from Animal Research* Dr. Frank Gilfeather, University of New Mexico 10:00–10:25*Balancing Security and Research at Biomedical and Bioscience Laboratories* Dr. Reynolds M. Salerno, Sandia National Laboratories 10:25–10:50*Dynamic Modeling of an Integrated Mass Prophylaxis and Tertiary Care Response to Bioterrorism* Dr. Nathaniel Hupert, Weill Medical College, Cornell University 10:50–11:15*Capability to Respond to a Large-Scale Biological Strike at the Homeland* Dr. Michael Boechler, Innovative Emergency Management, Inc. 11:15–11:40

Panel Discussion All session presenters 11:40–12:15

(Panel Moderator: Michael J. Hopmeier, Unconventional Concepts, Inc.)

LUNCH**ADD ROOM HERE****12:15 – 12:45****Session 4: New Mexico and Regional Response Infrastructure****12:45–5:00**

Moderator: Dr. I. Gary Resnick (Biothreat Reduction Program Office, Los Alamos National Laboratory)

*Perspectives on New Mexico and Southwestern Response to a Bioterror Event:**How Can National Resources Assist Rural America?* Dr. W. Craig Vanderwagen, Indian Health Service, USPHS 12:50–1:15*New Mexico Response to Bioterrorism* Dr. Paul B. Roth, UNM School of Medicine 1:15–1:40*Evolving Public Attitudes on Terrorism and the Implications for Public Policy* Dr. Roger L. Hagengruber, SNL; UNM Inst. for Public Policy 1:40–2:15**TBD** 2:15–2:40*Medical Management of Chemical-Biological Incidents* Mr. Dale Claycomb, Sandia National Laboratories 2:40–2:55**PM BREAK****ADD ROOM HERE****2:55 – 3:10***Bioterrorism at the Movies: Life is Stranger than Fiction* Dr. Antoinette Sedillo Lopez, UNM School of Law 3:10–3:35*Defense Nuclear Weapons School* Lt. Col. Veronica E. Holley, Defense Nuclear Weapons School 3:35–3:55*Communicating Homeland Security Issues: Perspectives from Local Broadcasters* Dr. Judy B. Oskam, Texas Tech University 3:55–4:15

Panel Discussion All session presenters 4:15–4:45

(Moderator: Dr. I. Gary Resnick)

CLOSING / ADJOURNMENT

Dr. Duncan and Dr. Sobel

4:45 – 5:00**Welcome**

We hope that you have marked your calendar for the 3rd annual conference on reducing biological threats and countering terrorism, which will discuss the underlying science, implications to strategic analysis and policy, and ultimately operational effectiveness within the realm of homeland security. The theme of this open public forum is “Strategy and Ground Truth: Defining the Road Ahead.” **BTR 2003** will bring together government, industry, and academic leaders for discussions focusing on these topics: Session 1: National Level Preparedness and Response; Session 2: International Web of Terrorism; Session 3: Effective Preparedness Through Countermeasures; and Session 4: New Mexico and Regional Response Infrastructure. Lunch will be served on-site to facilitate discussions.

Registration

Conference registration forms with fees must be received before the conference for each registrant. Registration forms and payment are due from all attendees, presenters, session chairs, sponsors, etc.: \$300 until 4 Feb., and \$350 after 4 Feb. The registration fee includes continental breakfast and lunch each day, a reception on Thursday evening, and one copy each of the Program/Abstracts book and the Proceedings. Payment may be made by credit card (VISA, Mastercard), or check made payable to UNM/ISD. Conference check-in begins at 0745 each day. The **Call for Papers / Registration** brochure has been posted; a Word registration form is on the webpage. Registration questions should be directed to the **BTR 2003** Registrar, Deborah G. Cole (505-272-7215; dcole@unm.edu).

For general information on all conference activities, contact Barbara L. Daniels, **BTR 2003** Coordinator (Industrial Security Dept. / Meetings Services, 801 University SE, Suite 300, Albuquerque, NM 87106; tel 505-272-7214; fax 505-272-7256; daniels@unm.edu). Watch the webpage for updates (<http://coffee.phys.unm.edu/BTR>).

EXHIBITORS: Exhibitor space (fee required) is planned; if you are interested, contact the Coordinator. A static display of the NM National Guard's Civil Support Team's capabilities will be included in the program.

Pre-Conference Tour: 19 March (tentative)

A tour to the Sevilleta Long-Term Ecological Research Project site is tentatively scheduled for the afternoon of 19 March (<http://sevilleta.unm.edu/>); watch the BTR webpage for details. One highlight will be the ongoing Hanta virus research. The tour is consistent with the conference theme of understanding the environment as an enabling factor in emerging diseases and highlighting the strengths and unique activities in New Mexico. Many opportunities are present for applying science, scientific principles, and theory, such as the chaos and complexity theory. UNM researchers will lead the discussion. Transportation is restricted to the two vans provided; no private cars or vans are permitted. Lunch will be provided on-site. Departure will be from the Wyndham Albuquerque Hotel (2910 Yale SE) parking lot at 12:30 pm; the vans will return about 5 pm to the Wyndham parking lot. Everyone is asked to be on time, for the schedule is tight. Reservations are required; the fee is \$30 per person (snacks will be provided). You may contact **BTR 2003** Registrar, Deborah G. Cole (505-272-7215; dcole@unm.edu) if you wish to add this fee to the credit card already submitted for registration, or you may send a check or pay when you check in at the conference. There will be a signup sheet if there are any slots still available at check-in. The Registrar will provide a confirmation of the tour fee paid. Be sure to wear comfortable clothes and walking shoes!

Accommodation

A roomblock (March 18–21) has been reserved at the Wyndham Albuquerque Hotel (505-843-7000; 1-800-227-1117) for \$89/night (single), \$99/night (double); cutoff date for the roomblock is 17 Feb (Mon). Remember to identify yourself as a **BTR 2003** conference attendee. Early reservations are strongly advised wherever you choose to stay. There are a number of large events in Albuquerque in the same time frame, including a basketball tournament. The Wyndham Albuquerque Hotel is within walking distance of the Albuquerque International Airport, has ample free parking, and is fully accessible (the hotel reservation form is on the webpage).

Information for Presenters

The electronic presentation must be compatible with Microsoft Power Point 97 or later. The narrative paper required for the Proceedings is to be formatted for Microsoft Word 6.0 or later. Papers will be compiled and edited, bound in the Proceedings volume, and distributed following the conference. The narrative paper (not to exceed 12 pages) is due before the conference, by **24 February**. (Overheads & slides will not be accepted in lieu of a narrative paper; however, these materials may be incorporated within the paper. Pdf & LaTeX formats are not acceptable and will not be used.) Presentations and papers must be non-proprietary and prepared for a public forum. A *Guide for Presenters* is available (<http://coffee.phys.unm.edu/BTR>). Contact the Coordinator if you have questions (B. L. Daniels, 505-272-7214; daniels@unm.edu).

Preliminary Program

Session 1: National Level Preparedness and Response: Focus on the underlying National infrastructure development for preparedness, response, and mitigation against acts of terror. This infrastructure includes human resources, science and technology, and analytic tools and techniques, which are enabled through academia, national laboratories, and the private sector.

Session 2: International Web of Terrorism: Attempt to provide a broad understanding of the scope of the problem and provide a contextual framework for R&D and S&T. This session will provide the "ground truth" baseline of concerns and constraints, which are the drivers for this Conference.

Session 3: Effective Preparedness through Countermeasures: Hone in on the anticipatory approach to threat deterrence employing science and technology. Broad categories include: sensor systems, information management and sharing (e.g., disease surveillance systems), and new approaches to vaccinology and immune preparedness.

Session 4: New Mexico and Regional Response Infrastructure: Drill down from the broader policy and strategy levels presented in Session 1 and focus on the interface between the scientific and R&D communities and the operational communities at state and local levels in an effort to continually evolve a common operational picture and common solutions.

